

IN THE CLAIMS:

1. (Currently Amended) A laser lens system for illustrating a printing form, the system comprising:

an edge-emitting laser providing a one-dimensional light source;

at least one spherical lens arranged between the laser and the printing form in order to bundle the a laser light emitted by the laser; and

at least one ~~aspherical lens~~ optical element arranged between the spherical lens and the printing form for focusing or converging the laser light onto a desired spot on the printing form, said optical element further comprising:

a first aspherical lens focusing or converging said laser light in a first direction;

a second aspherical lens focusing or converging said laser light in a second direction,

wherein said first aspherical lens and said second aspherical lens are arranged such that a coordinated focusing is performed to generate a desired spot focused on the printing form in said first and said second direction.

2. (Original) A lens system in accordance with claim 1, wherein at least one lens is a cylinder lens.

3. (Previously Presented) A lens system in accordance with claim 1, wherein said aspherical lens comprises two or more of said lenses integrated together as an optical element.

4. (Previously Presented) A lens system in accordance with claim 2, wherein said aspherical lens comprises two or more of said lenses integrated together as an optical element.

5. (Previously Presented) A lens system in accordance with claim 1, wherein at least one of said spherical lens and said aspherical lens has, in a first direction, a focusing point coinciding with at least another of said spherical lens and said aspherical lens for focusing the laser light in a second direction.

6. (Previously Presented) A lens system in accordance with claim 1, wherein at least one of said spherical lens and said aspherical lens has, in a first direction, a focusing point coinciding with another aspherical lens for focusing the laser light in a second direction.

7. (Canceled)

8. (Canceled)

9. (Original) A lens system in combination accordance with claim 7, wherein said spherical lens is arranged in front of an emitting area of the laser such that the focal point of the spherical lens is located at a greater distance from the spherical lens than from the light-emitting area.

10. (Canceled)

11. (Canceled)

12. (Currently Amended) A process for illustrating a printing form, the process comprising:

continuously operating a laser for exposing an area element of a predetermined width and height;

5 generating the laser light with the laser focused by a lens system with at least one spherical lens arranged between the laser and the printing form in order to bundle the laser light emitted by the laser and at least ~~one aspherical lens~~ a first aspherical lens and a second aspherical lens arranged between the spherical lens and the printing form for focusing or converging the laser light directly onto a desired spot on the printing form as a strip is produced directly by said focusing or converging and having a strip width that approximately corresponds to the width of the area element to be exposed, wherein the strip has a strip height that is smaller than the height of the area element to be exposed and the strip height is much smaller than the strip width;

10 wherein said first aspherical lens focuses or converges said laser light in a first direction, said second aspherical lens focuses or converges said laser light in a second direction, said first and second aspherical lenses perform a coordinated focusing to focus said laser light on a desired spot on the printing form in said first and second direction; and

leading the laser light strip generated over the area element to be exposed such that the entire height of the area element to be exposed is swept by the strip.

13. (Original) A process in accordance with claim 12, wherein the laser is switched off when the strip has swept the entire height of the area element to be exposed.

14. (Original) A process in accordance with claim 12, wherein at least one lens is a cylinder lens.

15. (Previously Presented) A process in accordance with claim 12, wherein said aspherical lens comprises two or more of said lenses integrated together as an optical element.

16. (Previously Presented) A process in accordance with claim 13, wherein said aspherical lens comprises two or more of said lenses integrated together as an optical element.

17. (Previously Presented) A process in accordance with claim 12, wherein at least one of said spherical lens and said aspherical lens has, in a first direction, a focusing point coinciding with at least another of said spherical lens and said aspherical lens for focusing the laser light in a second direction.

18. (Previously Presented) A process in accordance with claim 12, wherein at least one

of said spherical lens and said aspherical lens has, in a first direction, a focusing point coinciding with another aspherical lens for focusing the laser light in a second direction.

19. (Previously Presented) A process in combination according to claim 12, wherein the laser is an edge-emitting semiconductor laser diode.

20. (Original) A process in combination accordance with claim 19, wherein said spherical lens is arranged in front of an emitting area of the laser such that the focal point of the spherical lens is located at a greater distance from the spherical lens than from the light-emitting area.

21. (Currently Amended) A laser lens system for illustrating a printing form without a mirror, the system comprising:

an essentially one-dimensional edge-emitting laser emitting single beam laser light;

at least one spherical lens arranged between the laser and the printing form in order to  
5 bundle the single beam laser light emitted by the laser; and

at least one ~~aspherical lens~~ optical element arranged between the spherical lens and the printing form for focusing or converging the single beam laser light directly onto a desired spot on the printing form, said optical element further comprising:

a first aspherical lens focusing or converging said laser light in a first direction;

a second aspherical lens focusing or converging said laser light in a second

direction, wherein said first and said second aspherical lenses are arranged to coordinate focusing and to focus said laser light at a desired spot on the printing form in said first and said second direction.

22. (Currently Amended) A lens system according to claim 21, wherein ~~the laser is an edge-emitting laser emitting laser light from an essentially one dimensional edge~~ and the focused or converged light forms a strip area with a height much smaller than a width whereby the strip area is moved relative to the printing form to expose the printing form.

23. (Currently Amended) A lens system according to claim 1, wherein ~~the laser is an edge-emitting laser emitting laser light from an essentially one dimensional edge~~ and the focused or converged light forms a strip area with a height much smaller than a width whereby the strip area is moved relative to the printing form to expose the printing form.

24. (New) A method for laser-focused printing, the method comprising the steps of:  
emitting a laser light from a laser;  
bundling said laser light through a spherical lens;  
focusing said laser light through a first aspherical lens along a first axis;  
focusing said laser light through a second aspherical lens along a second axis;  
focusing said laser light on a desired spot on a printing form; and  
actuating an effect on said printing form to illustrate said printing form using said laser light.